

PROJECT: Midnite Mine Remediation**REPORT NO:** 2021-19**OWNER:** Newmont/Dawn Mining**OPERATOR:** Newmont/Dawn Mining

SUMMARY OF WORK ACTIVITIES OR EVENTS FOR THIS REPORTING PERIOD:

This weekly report provides a summary of Midnite Mine Site (Site) remediation action (RA) construction activities, quality assurance (CQA), quality control (CQC) and engineering activities for the period July 30 – August 5, 2021. The Site activities discussed in this weekly report include, but are not limited to: Site Health, Safety, and Security; Community Liaison, Project Meetings, Regulatory Oversight, Site Visitors; Site Mobilization; RA Activities; Project Documentation; and Site Inspections.

The project SharePoint site includes the Project documentation discussed in this report. Access to the project SharePoint site is available at the following link: (b) (6)

SITE HEALTH, SAFETY, AND SECURITY

MIDNITE MINE HEALTH & SAFETY SUMMARY: Reporting Period July 30 – August 5, 2021			
FIRST AID INJURY	0	PROPERTY DAMAGE	2
MEDICALLY TREATED INJURY	0	NEAR MISS INCIDENT	0
RESTRICTED WORK INJURY	0	RADIATION PROTECTION PLAN (RPP) – ISSUES REPORTED	0
LOST TIME INJURY	0		
Comments: There were two minor property damages during the previous reporting week. An excavator made contact with a riser in Pit 4 (no significant damage), and a rock chipped a loader window (remains in service). Sherwood fire is mostly contained and the IMT has been terminated.			

COMMUNITY LIAISON

- Community notifications continue to be sent to Mr. Sherwood for site equipment deliveries and WTP Solids transport.
- Notice received from the STOI Incident Commander that all work may proceed under hoot owl restrictions with two additional conditions: 1) Police dispatch is to be notified every morning of work conducted and 2) Any person or company conducting work must have an approved fire suppression plan. Approval granted by STOI fire management.

PROJECT MEETINGS, REGULATORY OVERSIGHT, AND SITE VISITORS

Weekly Progress Meeting:

The following stakeholders attended the Weekly Construction Progress meeting via a conference call on Wednesday, 4 August 2021;

- EPA
- Spokane Tribe of Indians
- Army Corps of Engineers (USACE)
- Dawn Mining Company (DMC)/Newmont
- WME
- AJAX
- Stantec

Meeting Action Items:

- None.

EPA Plan/Document Approvals:

- None.

Regulatory Site Visit(s):

- Mark Fillius, USACE, was on Site on 2-5 August.

REMEDIAL WORK ACTIVITIES

Construction:

During the week of July 30 – August 5, 2021, the following activities were conducted:

- Newmont excavated, hauled and placed low activity/low reactivity material from the west side of the South Waste Rock Pile (SWRP) and the Pit 4 Overburden Pile. Newmont placed these materials in the Pit 4 Waste Containment Area (WCA).
- SLV Earthmovers continued crushing and screening material from the Hillside Waste Rock Pile (HSWRP) to produce Drain Gravel and Geomembrane Bedding Material. Newmont hauled these materials to stockpile locations designated in the 2021 Crushing and Stockpiling Work Plan (Stantec, 2021). Estimated quantities of materials produced are presented in Table 1.
- Collection of Quality Control samples from the crushing and screening operation continued with samples of Drain Gravel and Geomembrane Bedding Material submitted to Budinger and Associates for gradation analysis.
- Stantec collected 3 samples from the Liner Bedding Material stockpile to verify the results of the last quality control sample collected which indicated that the material tested may not meet specifications. Samples were submitted to Budinger and Associates for gradation analysis and results are pending.
- Newmont pressure tested the 10-inch HDPE Pit 3 Dewatering Pipeline and moved the pipeline into Pit 3.
- Stantec performed Method 9 visible emissions observations at the crushing and screening operation on the HSWRP on 30 July. Visible dust from the crushing operation conformed with project requirements.
- Stantec performed a mixing test to determine the quantity of Water Treatment Plant effluent required to raise the conductivity of the water in the West Cell of the South Pond to 1,000 $\mu\text{S}/\text{cm}$. The leak location service, Hydrogeophysics Inc. requires higher conductivity for testing than the previous leak location service required.
- Stantec performed South Pond embankment stability inspection on 30 July. The embankment remains stable and the water level in the South Pond piezometer remains below the action level.
- Stantec measured the distance between monitoring pins at the Pit 4 tension crack and noted that distance remained consistent with previous measurements at 53-7/8 inches.
- Halme Construction suspended work on the Effluent Pipeline due to the Sherwood Fire and the high fire hazard in the work area.

Table 1 – 2021 Production Estimates

Material	Reporting Period			Year-to-date			Annual % Complete
	Planned Production (yd³)	Estimated Volume¹ (yd³)	% of Planned	Planned Production (yd³)	Estimated Volume¹ (yd³)	% of Planned	
Haulage to Pit 4							
SWRP	17,919	50,736	283%	419,456	695,212	166%	92%

Material	Reporting Period			Year-to-date			Annual % Complete
	Planned Production (yd ³)	Estimated Volume ¹ (yd ³)	% of Planned	Planned Production (yd ³)	Estimated Volume ¹ (yd ³)	% of Planned	
HSWRP	1,889	0	0%	34,201	2,828	8%	4%
Pit 4 Overburden	14,700	2,940	20%	182,980	321,496	176%	96%
CSZ Cleanup	417	0	0%	2,000	28,700	1435%	574%
Total	34,925	53,676	154%	638,637	1,048,236	164%	91%
Aggregate Production							
Drain Gravel	8,500	8,016	94%	158,100	125,098	79%	42%
Liner Bedding	0	0	--	9,250	9,414	102%	102%
Geomembrane Bedding	8,500	7,977	94%	158,100	127,733	81%	33%
Total	17,000	15,993	94%	325,450	262,245	81%	38%

1 - Truck load assumed to be 27 yd³

Stormwater Pollution Prevention Plan (SWPPP)

- Newmont continued to excavate the Pit 4 Overburden Middle stormwater channel.

Spill Prevention, Control, and Countermeasure Activities (SPCC)

- Approximately 4 to 5 gallons of hydraulic fluid spilled from the rear differential of a haul truck on 30 July. The spill occurred on mine waste material. Effected materials were placed in Pit 4.

Equipment Mobilized/Demobilized and Material Delivered

The following equipment was mobilized to the Site during this reporting period.

- Newmont received a new bucket for a 349 excavator and a rebuilt bucket for a 390 excavator.
- Newmont demobilized the 2,200 gallon water truck on 4 Aug 2021.
- SLV received a Caterpillar 730 articulated haul truck.

The following equipment was demobilized from the Site during this reporting period.

- None.

All project owned non-road diesel equipment on Site is US-EPA Tier 4 compliant. On-site rental equipment and subsequent deliveries of rental equipment may be less than Tier 4 and will be assessed at the time of delivery.

Materials:

The following material was delivered to the Site during this reporting period.

- None.

CONSTRUCTION QUALITY ASSURANCE

Dust Control and Monitoring

All eight dust monitors were turned off for the entire week as shown in Table 2 below. Local area fires continued to generate elevated TSP levels during this time-period. Both water trucks (4,000 and 9,000-gallon capacity) were

used for dust suppression as needed during mine site construction activities. There were no construction activities occurring for the Effluent Pipeline during this reporting period.

Bison Engineering is scheduled to be on site Thursday (8/12/2021) for monthly dust monitor calibrations.

Table 2 - TSP Dust Monitoring Locations during reporting period July 30 – August 5, 2021

Monitor ID	Location Description	Start Date	Status						
			Fri	Sat	Sun	Mon	Tue	Wed	Thurs
ES-1 (stationary)	Midnite Mine Top of Pit 4	03/23/21	E			E	E	E	E
ES-2 (stationary)	Midnite Mine Southeast Boundary	03/23/21	E			E	E	E	E
ES-3 (stationary)	Midnite Mine West Boundary	03/23/21	E			E	E	E	E
ES-4 (roving)	Northeast Side of the SCSZ	04/16/21	E			E	E	E	E
ES-5 (roving)	Northeast of the Mid-SWRP	03/24/21	E			E	E	E	E
ES-6 (roving)	East of HSWRP above High Road	03/23/21	E			E	E	E	E
ES-7 (roving)	Northeast of HSWRP at Pit 4	03/23/21	E			E	E	E	E
ES-8 (stationary)	NAR ~Station 14+00	06/29/21	E			E	E	E	E
D=Day Shift (6:00 am to 4:30 pm) N=Night Shift (4:00 pm to 2:30 am) E=Environmental conditions (fog, smoke , pollen, heavy rain, etc.) O=Off - Special Circumstances * Equipment malfunction (Battery/Power Supply or Other)									

Project Documentation

Project CQA-CQC Field Acceptance Forms, Engineering Change Notices (ECNs), Design Clarification Notices (DCNs), Non-Compliance Notifications (NCNs), Requests for Information (RFIs), Submittals, and Other Items received during this time-period are shown in the table below:

CQA Documentation

CQC-CQA Field Acceptance Forms			
Acceptance No.	Title		CQC-CQA Issue Date
None			
Project DCNs			
DCN No.	Title	Submittal Date	EPA Response Date
None			
Project ECNs			
ECN No.	Title	Submittal Date	EPA Response Date
2021-01	Monitoring and Control of Phreatic Levels in the South Pond Embankment Mine Site Summary Memo for the South Pond Dewatering Well & Piezometer sent to EPA on 7/18/2021	3/19/2021	Conditional Approval Received on 5/11/2021 Summary Report Received by CQA on 7/14/2021 EPA TBD
2021-02	Modifications to Pit 3 Underdrain and Dewatering Sumps Mine Site Stantec Response to EPA Comments were sent on 8/4/2021	6/8/2021	EPA Approval Received 7/13/2021
Notice of Non-Compliance			

NNC No. and Dates	Title/Description	CQA	CQA/EPA Response Date(s)
None			
Project RFIs			
RFI No.	Title	CQC Submittal Date	CQA/EPA Response Date(s)
HC-2021-06	NAR Lead-Off Crossing and Pipeline Alignment Adjustment Effluent Pipeline <i>Design Engineer's Response Received 6/29/2021</i> <i>EPA Comments Received 7/14/2021 – Stantec Preparing Responses</i>	6/17/2021	CQA – 7/1/2021 EPA - TBD
HC-2021-08	Use of Native Materials for Bedding Source (Blue Creek Road Sample) Effluent Pipeline <i>STOI Approval Received on 8/3/2021</i>	6/29/2021	CQA – 7/14/2021 EPA Approval Received 8/4/2021
2021-05	June 2, 2021 Liner Bedding Gradation Test Results (Crusher Sample) Mine Site	7/6/2021	CQA – 7/13/2021 EPA - TBD
Submittals			
Submittal No.	Title	CQC Submittal Date	CQA/EPA Response Date(s)
HC-01575-02.1	Addendum to SPCC – Fuel Tanks Effluent Pipeline <i>Halme submitted Tier 1 Facility Application for Review 7/23/2021</i>	6/10/2021	CQA – 8/2/2021 EPA Accepted 8/4/2021
02272-15	South Pond Geomembrane – 2021 Liner Repairs Mine Site	6/21/2021	CQA – 7/22/2021 EPA - TBD
02970-08	Temporary Erosion Seed Mix as Installed on June 30, 2021 Mine Site	7/6/2021	CQA – 8/4/2021 EPA - TBD
01300-05	South Pond Vibrating Wire Piezometer – Product Sheets and Calibration Certs. Mine Site	7/7/2021	CQA – 8/5/2021 EPA - TBD
02272-16	South Pond Liner Repair Data for June 8 through July 1, 2021 Mine Site	7/7/2021	CQA – 7/22/2021 EPA - TBD
HC-02200-05	Soil Analysis/Proctor – Native Screened Soil from Blue Creek (for use as pipe bedding only) Effluent Pipeline <i>STOI Approval Received 8/3/2021</i>	7/12/2021	CQA – 7/13/2021 EPA - TBD
02272-17	South Pond Liner Repair Data for July 16, 2021 Mine Site	7/27/2021	CQA – 8/1/2021 EPA - TBD
Other Items			
Item	Title	Comments	
None			

Copies of the updated CQA Logs are being updated and will be located on the project SharePoint site under the 2021 CQA Folder.

Site Inspections

Details regarding the four-phase CQA observation/inspection process for each definable work feature are summarized below and are further detailed in the daily CQC/CQA reports that are available on the project SharePoint site.

Preparatory Inspections / Meetings

- Rhoads Property Well Drilling Activities
- Pit 3 Pump Relocation

Initial Phase Inspections

- None

Follow-up Phase and Ongoing Inspections

- Mine Waste Placement in Pit 4 – Low activity/low reactivity material from the SWRP, Middle Overburden Pile - no restrictions on placement.
- Tracking Dust Monitoring System
- Effluent Pipeline – BMPs
- Effluent Pipeline – Density Testing/Backfill Reports
- South Pond Liner Leak Investigation and Repairs
- Pit 3 Dewatering Pipeline – Hydrostatic Test
- Pit 3 Liner Bedding Gradation Sample Retest
- Pit 4 Dewatering Risers – Installation of another set of risers UDS (310 feet) and WRDS (260 feet)
- Equipment Mobilization Inspections

Completion Inspections

- None

THREE WEEK LOOKAHEAD SCHEDULE

A copy of the Three Week Lookahead Schedule is provided as Attachment A.

Report completed and submitted by:
<u>Andrew Liffing, P.E.</u> <u>Project Construction Director</u>
Attachments <ul style="list-style-type: none">• Attachment A – Midnite Mine 3 Week Lookahead Schedule
Photos of pertinent items are provided below.



Figure 1 – Crushing and screening operations at the HSWRP, view looking northeast.



Figure 2 – Placement of low activity/low reactivity material into Pit 4 as required, view looking south.



Figure 3 – Excavation, loading and hauling of material from the South Waste Rock Pile – Mid loadout 2, view looking southwest.



Figure 4 – Excavation, loading and hauling of material from the South Waste Rock Pile – Mid loadout 2, view looking northeast.



Figure 5 – Drainage ditch excavation in along East edge of Pit 4 Overburden.



Figure 6 – Pressurizing the 10" HDPE pipe for hydrostatic testing.

ATTACHMENT A

MIDNITE MINE THREE WEEK LOOKAHEAD SCHEDULE

Data Date: 06-Aug-21
Print Date: 06-Aug-21

Activity ID	Activity Name	RD	% Complete	Start	Finish			Aug 01							Aug 08							Aug 15							Aug 22							Aug 29				
						Fri	Sat	Sun	Mon	Tue	Wed	Thr	Fri	Sat	Sun	Mon	Tue	Wed	Thr	Fri	Sat	Sun	Mon	Tue	Wed	Thr	Fri	Sat	Sun	Mon	Tue	Wed	Thr	Fri	Sat	Sun	Mon	Tue	Wed	Thr
27-1000	Produce Drain Gravel for Pit 3	97d	55%	29-Mar-21 A	23-May-22	<div></div>																																		
27-1030	Haul Drain Gravel, Stockpile (301k cy)	97d	55%	29-Mar-21 A	23-May-22	<div></div>																																		
28. Initiate construct of the Pit#3 sump including initial construction of unde		20d		06-Jul-21 A	02-Sep-21	<div></div>																																		
28-1180	Install Pit 3 dewatering system to transfer water to South Pond (1,000 GPM)	20d	70%	06-Jul-21 A	02-Sep-21	<div></div>																																		
28-1140	Install pumps and generators	4d	0%	06-Aug-21	11-Aug-21	<div></div>																																		
28-1190	Route Pit #4 temporary dewatering line to South Pond	10d	0%	12-Aug-21	25-Aug-21	<div></div>																																		
28-1160	Route PCP, Blood Pool, from Pit #3 to South Pond	5d	0%	27-Aug-21	02-Sep-21	<div></div>																																		